

20010324.qrp v02_n137.qrl.20010324

Date: Sat, 24 Mar 2001 19:03:13 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2137

QRP-L Digest 2137

Topics covered in this issue include:

- 1) [94788] [Help] Changing email address..
by "Michael Melland" <badger@vbe.com>
- 2) [94789] Mu Metal
by Dan Tayloe <dtayloe@home.com>
- 3) [94790] Re: K-1 and K-2 auto tuners?
by "Mike Yetzko" <myetzko@insydesw.com>
- 4) [94791] 20 meter xtal question
by Richard Clem <clem.law@usa.net>
- 5) [94792] RE: 20 meter xtal question
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 6) [94793] TCN
by Bob Liesenfeld <wb0poq@visi.com>
- 7) [94794] Re: [94738] Wanted: Coil Winder
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
- 8) [94795] Re: [94738] Wanted: Coil Winder
by "ZOOM" <kandrparker@sympatico.ca>
- 9) [94796] EP-3 Builders! - Wanna swap parts??
by Mike Pupeza <mpupeza@altavista.com>
- 10) [94797] QRP Beacon on 144.34 MHz FM simplex {March 24}
by jaywa5whn@juno.com
- 11) [94798] Mu Metal types
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 12) [94799] Re: LW Antenna for K1?
by Bruce Grubbs <n7ceeqr@earthlink.net>
- 13) [94800] Code Warrior
by "Ken Kirkley" <ogbc@mindspring.com>
- 14) [94801] Nominal parts values, substituting parts
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 15) [94802] Ten-Tec 509 for sale
by "Richard Clemens" <clemens@wvwc.edu>
- 16) [94803] Headphones high vs. low, another good question
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 17) [94804] scratch-built SST-40 problem
by neil <ntan@crosslink.net>
- 18) [94805] Re: PixieII
by neil <ntan@crosslink.net>
- 19) [94806] Re: [Help] Changing email address..

by "blinn" <blinn@smgazette.com>
20) [94807] Re: [Help] Changing email address..
by "blinn" <blinn@smgazette.com>
21) [94808] Re: 20 meter xtal question
by "blinn" <blinn@smgazette.com>
22) [94809] FS: TT Argosy Station \$425.00
by Patrick Armstrong <aa7fg@gte.net>
23) [94810] RE:WANTED: Coil Winder
by MertNellis@aol.com
24) [94811] Re: Wanted: Coil Winder
by "Ron, KU7Y" <ku7y@qsl.net>
25) [94812] fs: Sub "C" NiCad Cells>>CHEEP!
by RLucch2098@aol.com
26) [94813] fs: AUDIO AMP BOARDS-BUILT \$10ppd
by RLucch2098@aol.com
27) [94814] Re: Nominal parts values, substituting parts
by Mighty Mik <mightymik2@home.com>
28) [94815] Re: KU7Y Sighted "Out Of His Hole" In A Tucson Restaurant
by "Ron, KU7Y" <ku7y@qsl.net>
29) [94816] new ham
by "anonham2001" <anonham2001@yahoo.com>
30) [94817] Re: Headphones.
by Dan Tayloe <dtayloe@home.com>
31) [94818] SMK-1 almost done
by John Rollins <kd7bcy@teleport.com>
32) [94819] Super Tee ?
by John R Kirby <n3aaz-qrp@juno.com>
33) [94820] Re: WANTED: Coil Winder
by Michael Neverdosky <mneverdosky@earthlink.net>
34) [94821] Re: Headphones.
by "William K. Harding" <k4ahk@ix.netcom.com>
35) [94822] Re: Headphones.
by Dan Tayloe <dtayloe@home.com>
36) [94823] WB8RCR's eMail
by "John J. McDonough" <wb8rcr@arrl.net>
37) [94824] FS: Ten-Tec Scout
by "Steve" <ki0ky@dmea.net>
38) [94825] FS: FC700 Yaesu Antenna Tuner
by K5BDZ@aol.com
39) [94826] Re: [fpqrp] Thank u.... thank u
by "Dan W. Dooley" <dandooley@pipeline.com>
40) [94827] [OT] Old Radio Books
by "Conant, Paul" <paul.conant@lmco.com>
41) [94828] Re: Super Tee ?
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
42) [94829] 2-mW beacon 21.061 de n0tu
by "Steve/n0tu" <n0tu@webaccess.net>
43) [94830] K1 as a beginners rig?

by Tim Hodges <7twh@ttc-cmc.net>
44) [94831] Re: K1 as a beginners rig?
by "ZOOM" <kandrparker@sympatico.ca>
45) [94832] Q: IC-info site
by Stan Yarema <bg783@scn.org>
46) [94833] TenTec Paragon and other TenTec accessories FS
by "Ken Simpson, W8EK" <W8EK@fdt.net>
47) [94834] Re: 2-mW beacon 21.061 de n0tu
by Steve Yates - AA5TB <aa5tb@arrl.net>
48) [94835] Re: 2-mW beacon 21.061 de n0tu
by Steve Yates - AA5TB <aa5tb@arrl.net>
49) [94836] Re: K1 as a beginners rig?
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
50) [94837] RE: K1 as a beginners rig?
by "Conant, Paul" <paul.conant@lmco.com>
51) [94838] Re: 2-mW beacon 21.061 de n0tu - NOW 15mW
by "Steve/n0tu" <n0tu@webaccess.net>
52) [94839] OP: PSK beacon
by "Richard Matthews" <prm@hiwaay.net>
53) [94840] Snap Transmitter?
by "John L. Sielke" <w2agn@pobox.com>
54) [94841] RE: FS Ten-Tec Scout
by "Steve" <ki0ky@dmea.net>
55) [94842] Re: PSK beacon
by "Tom Azlin" <tom@nilza.org>
56) [94843] SMK-1 in a case.
by "Steve/n0tu" <n0tu@webaccess.net>
57) [94844] Re: [fpqrp] Thank u.... thank u
by Euramcom <mel@euramcom.freemove.co.uk>
58) [94845] Re: Snap Transmitter?
by "David Porter" <aa3ur@home.com>
59) [94846] PSK31 Audio Beacon - construction tips #1
by "George Heron N2APB" <n2apb@erols.com>
60) [94847] Selling Index Labs QRP++ and S&S ARK40
by Tim and Nancy Logan <cyr999@extremezone.com>
61) [94848] Re: Selling Index Labs QRP++ and S&S ARK40
by RangerSF5@aol.com
62) [94849] Re: Snap Transmitter?
by Joseph I Pirkle <ad4ih@juno.com>
63) [94850] FS: DSW-30
by "Rod Cerkoney" <n0rc@hotmail.com>
64) [94851] Re: Snap Transmitter?
by "John L. Sielke" <w2agn@pobox.com>
65) [94852] Re: Snap Transmitter?
by Michael Bower <bowerm@ix.netcom.com>
66) [94853] Century 21 w/low output
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
67) [94854] QRP sprint Sunday evening

by "George Heron N2APB" <n2apb@erols.com>
68) [94855] [TMPS] MS-30 LIVES!
by "Rod Cerkoney" <n0rc@hotmail.com>
69) [94856] Buried radials?
by Drbob92031@aol.com
70) [94857] Re: DSW-30
by "Rod Cerkoney" <n0rc@hotmail.com>
71) [94858] Re: Buried radials?
by "Dan W. Dooley" <dandooley@pipeline.com>
72) [94859] Re: K1 as a beginners rig?
by "Mike Yetsko" <myetsko@insydesw.com>
73) [94860] Re: Buried radials?
by "George, W5YR" <w5yr@att.net>
74) [94861] RE: Buried radials?
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>

Date: Fri, 23 Mar 2001 18:10:46 -0600
From: "Michael Melland" <badger@vbe.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94788] [Help] Changing email address..
Message-ID: <000701c0b3f6\$e0a1ca00\$01844d40@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm joining the ranks of high speed digital cable access... and my email address is changing. Who/how do I change my list subscription so my address gets changed to my new one ?

old address: badger@vbe.com

new address w9wis@charter.net

Thanks

--
Michael Melland, W9WIS
Winneconne, Wisconsin, USA EN54pc
QRP-L #1656 QRP-ARCI #9875
IPARC #252 SOC #142
<http://www.vbe.com/~badger>

Date: Fri, 23 Mar 2001 17:11:47 -0700
From: Dan Tayloe <dtayloe@home.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [94789] Mu Metal
Message-ID: <3ABBE643.59FCC304@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to all of you who let me know what this stuff really is. It looks like I can probably get some from

www.advancemag.com

Neat stuff!

- Dan Tayloe, N7VE

Date: Fri, 23 Mar 2001 19:18:23 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <JCoote@ci.arcadia.ca.us>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94790] Re: K-1 and K-2 auto tuners?
Message-ID: <009c01c0b3f7\$f3d9b8c0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Assuming someone were fool enough to purchase a K-1 or
> K-2 automatic antenna tuner without a fine K-1 or K-2 radio
> attached, I wonder if the tuner would work with other QRP
> radios?
> Jay
> W6CJ

They'll work just fine! If you take the time to interface them to your new radio. Including the serial communications needed on the auxbus, and the RF, and the dc levels they provide back for SWR. Did I forget anything? It's simple...

Mike

Date: 23 Mar 2001 18:36:48 CST
From: Richard Clem <clem.law@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [94791] 20 meter xtal question
Message-ID: <20010324003648.25853.qmail@nw177.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I just ordered one of the Micro-80 QRP kits from Oleg, RV3GM, about which= he had posted an announcement on the list. I couldn't resist getting a complete (almost) HF station for \$20. I decided to start with the 20 meter version. =

While I'm waiting for the kit to arrive, I want to order the crystal. What is the preferred QRP frequency on 14 MHz? And does anyone have any suggestions as to where to buy one?

Thanks in advance for any leads!

73,
Rick W0IS

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

Date: Fri, 23 Mar 2001 19:55:29 -0500
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: <clem.law@usa.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94792] RE: 20 meter xtal question
Message-ID: <GCECIJFJPOHMCKACOA0BIEDACGAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Ocean Electronics has crystals for the 14.060 QRP calling freq for \$9.65.
The URL is: http://www.oselectronics.com/ose_p33.htm

73,

Jake -- N4UY

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Richard Clem

Sent: Friday, March 23, 2001 7:37 PM

To: Low Power Amateur Radio Discussion

Subject: 20 meter xtal question

I just ordered one of the Micro-80 QRP kits from Oleg, RV3GM, about which he had posted an announcement on the list. I couldn't resist getting a complete (almost) HF station for \$20. I decided to start with the 20 meter version.

While I'm waiting for the kit to arrive, I want to order the crystal. What is the preferred QRP frequency on 14 MHz? And does anyone have any suggestions as to where to buy one?

Thanks in advance for any leads!

73,

Rick W0IS

Get free email and a permanent address at <http://www.netaddress.com/?N=1>

Date: Fri, 23 Mar 2001 19:01:05 -0600
From: Bob Liesenfeld <wb0poq@visi.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [94793] TCN
Message-ID: <3ABBF1D1.7635D296@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi gang,

Anyone know the current status of the TC net that used to meet Sunday evenings?

Thanks!

Bob WB0POQ

Date: Fri, 23 Mar 2001 20:26:47 -0500 (EST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: WA6GER@aol.com
Cc: qrp-1@lehigh.edu
Subject: [94794] Re: [94738] Wanted: Coil Winder
Message-ID: <200103240126.UAA13463@panix3.panix.com>

Do you know about the Dave Gingery pamphlet on building one?

73, doug

Date: Fri, 23 Mar 2001 10:14:17 EST
From: WA6GER@aol.com
Content-Type: text/plain; charset="US-ASCII"

Not optomistic that any are still around, but hope so.

Thanks for reading.

jim, WA6GER

Date: Fri, 23 Mar 2001 20:28:06 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: <faunt@panix.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94795] Re: [94738] Wanted: Coil Winder
Message-ID: <000701c0b401\$b326b800\$3294fea9@robertpa>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is the link for Lindsay publications that carry the Gingery books. Such as the coil winder. It's easy to build!

<http://www.lindsaybks.com/>

Cheers,
Robert
VE3RPF

----- Original Message -----

From: "Doug Faunt N6TQS +1-510-655-8604" <faunt@panix.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, March 23, 2001 8:26 PM
Subject: Re: [94738] Wanted: Coil Winder

> Do you know about the Dave Gingery pamphlet on building one?
>
> 73, doug
>
> Date: Fri, 23 Mar 2001 10:14:17 EST
> From: WA6GER@aol.com
> Content-Type: text/plain; charset="US-ASCII"
>
> Not optimistic that any are still around, but hope so.
>
> Thanks for reading.
>
> jim, WA6GER
>

Date: 23 Mar 2001 17:30:05 -0800
From: Mike Pupeza <mpupeza@altavista.com>
To: QRP-L@Lehigh.EDU
Subject: [94796] EP-3 Builders! - Wanna swap parts??
Message-ID: <20010324013005.13929.cpmta@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

Hi Epiphyte-3 builders;
I have some parts to spare, including:
CA3120
455kHz resonators
some digikey capacitors
4066 IC
78L09
78L08
MPF102
1000 mHy
1000 mHy (low resistance)
T37 - 2 toroid cores
IFR510

I need
Murata 455kHz SSB filter

3 FT37-43 toroid cores
MVAM108 or 1SV149 Varicap diode
High Efficiency 1.7 Vf LED

So, What Say?
Anyone with my needs, need my 'surplus'?
Mike VE3EQP.....>

Find the best deals on the web at AltaVista Shopping!
<http://www.shopping.altavista.com>

Date: Fri, 23 Mar 2001 18:29:59 -0700
From: jaywa5whn@juno.com
To: qrp-1@lehigh.edu
Subject: [94797] QRP Beacon on 144.34 MHz FM simplex {March 24}
Message-ID: <20010323.183006.-979479.0.jaywa5whn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

If you should copy a beacon on 144.34 MHz FM (300 mw} on Saturday
{March 24} after 9 AM MST {1600 UTC} and you live within a 400 miles
radius, as the crow flies, of Denver, Colorado

check out the following url;

<http://www.eoss.org/>

In particular, EOSS-48.

72...Jay, WA5WHN DM65qd

Albuquerque, NM USA

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 23 Mar 2001 19:41:30 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>

To: <dtayloe@home.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [94798] Mu Metal types
Message-ID: <001101c0b403\$92aae9f0\$4e100a0a@rohredt2000>

Not ordinary steel at all! It is fairly pricey stuff because of combinations of materials and heat treating.
Mu Metal is a specially annealed alloy of steel and other metals. There are two main types of mu metal, depending on what you are shielding from.

One type is for radiated fields, one type is for conducted magnetic fields. They are known as Netic and Co-Netic. Mu is the Greek symbol for permeability of magnetic material. Mu metal has high permeability and low hysteresis loss. It is probably heavier than steel of the same gauge. At least my several Mu Metal tape reel carrying cases seem VERY heavy for their construction.

A manufacturer who had some helpful technical notes back when I was getting into magnetic shielding, was Perfection Mica Co. There is even an application note of a simple coil of about 1 inch diameter and ten turns or so, which can be used with an HP 400 AC Voltmeter or equivalent for measuring magnetic fields. I think those were used from low AC to 4 MHz at least.

72,
Stuart K5KVH

Date: Fri, 23 Mar 2001 18:33:24 -0700
From: Bruce Grubbs <n7ceeqrp@earthlink.net>
To: 70511.3041@compuserve.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94799] Re: LW Antenna for K1?
Message-ID: <5.0.2.1.0.20010323183202.03d253d8@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Doc,
I'm using 80 feet of wire with a 33 foot counter poise, the K1, KAT1, and 40/20 and 30/15 filter boards. It tunes to a SWR of 1.2 on 40 meters, and 1.0 on the other three bands.

73
Bruce
N7CEE

Bruce Grubbs
N7CEE
Flagstaff, Arizona
DM45ef

Date: Fri, 23 Mar 2001 20:58:47 -0000
From: "Ken Kirkley" <ogbc@mindspring.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [94800] Code Warrior
Message-ID: <000d01c0b3dc\$0eb824e0\$73b5f7a5@default>

Just to let you know...ordered a Code Warrior from Burghardt's Radio in Watertown, SD, today. Am waiting to hear from him as to how many more he has. For those who can't find one locally give Jim a call at 1-800-927-4261 or log on to the web page www.burghardt-amateur.com

73 & God Bless,
Ken/N04D

ps...stardard disclaimer...no connection with Burghardt's just a satisfied customer.

Date: Fri, 23 Mar 2001 20:07:10 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-l@Lehigh.EDU>
Subject: [94801] Nominal parts values, substituting parts
Message-ID: <001701c0b407\$22b54650\$4e100a0a@rohredt2000>

Another convention in construction projects back in ancient times, was that a nominal part value, meant if you had a 270 pf cap, then that was what the author had in the junk box, but he probably had enough inductance in the tuned circuit that the desired tuning range could be covered by a 250 pf cap, or whatever "Was in the ball park" of what the author used. Certainly, with a variable cap, anything with a larger maximum could be used with corresponding dilution of tuning resolution, if it was WAY bigger. Thus,

you could use 365 pf successfully, but 1000 might tune pretty "touchy"

The wonderful thing about boat anchors days is that the variability in tubes and parts with 20 per cent resistors and probably no better than 10 per cent fixed caps, meant that good circuit design had to work over a wide range of even the specified component value. With proper voltage and current ratings many things would work in place of other parts.

Things tightened up with discrete transistor construction, with 5 per cent fixed capacitors becoming common, as well as resistors rated that close, or even to 1 per cent or better. (Closer had existed with tubes, but were mostly in scientific instruments and VOMs). At first this was to account for the variable gain of the transistors first available, I think.

However, transistors were made in batches, and varied widely in gain for years. Thus, they would grade out the production and higher gain might get one part no., and lower gain a lesser number. There is still a Beta gain range for discretes on the data sheet of each.

The wonderful thing about transistor construction after quality went up, and yield, was that as long as you used the correct material (germanium or silicon), and polarity semiconductor, (N or P type), and had at least as much voltage and current rating and for RF use had similar frequency cut off, there became tens of transistor type numbers that could be substituted with some (on no) circuit tweaks for each other. I can remember the days when the 2N 404 was used from DC to RF. It was the 2222 of its day. You just needed a good Transistor catalog of what you were trying to match, and what you had, and you could substitute and get something to work. I remember getting a British circuit needing an AF 139. Not having those, I found a 2N711B would cover part of the frequency range in the same blocking oscillator circuit. Thus, U.S. parts can work for European type nos.

Read up on the character of different components and which types can function at DC, AF and RF, and why (based on what it is doing) a particular type was in the original circuit. You can often then use the junk box, and duplicate a circuit or repair one with something just as good or better.

72, Stuart K5KVH

Date: Fri, 23 Mar 2001 21:10:38 -0500
From: "Richard Clemens" <clemens@wvwc.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94802] Ten-Tec 509 for sale
Message-ID: <001601c0b407\$a85223a0\$1a750cd8@wvwc.edu>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale - Ten Tec Argonaut 509 QRP Classic in excellent working condition. I have tested this rig's CW performance and found it to be outstanding. I am unable to test the SSB operation as I do not have a microphone for the rig. This rig is used and does have a few minor marks on the finish but otherwise clean. It could use some minor adjustment (re-glue the front panel window) and some careful cleaning of the knobs etc. Includes a copy of the Operator's Manual. \$250 plus shipping from West Virginia. Contact KB8A0B, Rich at kb8aob@arrl.net Call 304-439-1248.

Date: Fri, 23 Mar 2001 20:29:39 -0600
From: "Stuart Rohre" <rohre@arllut.utexas.edu>
To: <preacher102677@juno.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [94803] Headphones high vs. low, another good question
Message-ID: <001d01c0b40a\$46da2cf0\$4e100a0a@rohredt2000>

It is true low impedance phones will draw more current.. However you can have a variable in audio output sensitivity in both types, by how good the magnetics of the phone happen to be. And if it is an old high impedance crystal (piezoelectric) earphone, they can be quite sensitive compared to magnetic phones.

The common ham head phones of the 50's was often 2000 ohms for double set and 1000 for single. The 1000 ohm units were wired in series and were mono.

Things started changing when high fidelity stereo came along.

But, before that, the Military had gone from a 600 ohm phone standard to some phones of the double magnetic type in the Korean War era, (1955) of 15,000 ohms, which are ideal for ham radio use. These are very sensitive. They were exceeded by the Brush crystal element phones which were actually a piezoelectric material. I think Brush brand phones were 50,000 ohms, but were expensive and uncommon among hams by 1957.

After transistor stereo came along, we went from small speakers as headphones at 8 ohms to other types. The battery powered Walkman era is about when I first saw 32 ohms as a magnetic phone standard. They draw less battery current vs. lower impedances. Before that, many transistor radio single ear pieces were crystals again, but did not hold up well in humid environments. They were thousands of ohms to be able to work with either crystal detectors or low power audio of early transistor sets.

Older ham radio receivers are happy with 2000 or higher headphones. If their headphone circuit switches out and simply is off the speaker transformer, which was typically 4 ohms impedance, they should work with 8 ohm phones, or other magnetic types or even the highest impedance crystal Brush phones. The military receivers or marine receivers, often had 600 ohm audio transformer windings for the then popular military dual aviation head phones. Receivers like the RCA AR88, the Hammarlund Super Pro, and National marine type sets were in this class.

32 ohm phones may not work on old receivers, and should not be used on Ten Tec 505s, PM series and such without a transformer. Those older Ten Tec QRP radios were made for the 2000 ohm phones. Since you can tolerate distortion in some ham radio applications, you likely could use a 600 ohm modem transformer for such current limiting but it is still easy to find NOS surplus Army phones or NOS 2000 or even 1000 ohm phones from Antique Electronic Supply.

Current kits from the 90's should mostly have IC audio outputs that can drive small speakers and thus will work with stereo phones in a mono mode. They will also work with the old headsets, and allow you to lower the volume level control, and still get loud audio.

72, Stuart K5KVH

Date: Fri, 23 Mar 2001 21:35:27 -0500
From: neil <ntan@crosslink.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [94804] scratch-built SST-40 problem
Message-ID: <3ABC07EF.EC6894DB@crosslink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings all....

I am building the SST-40 from scratch and had completed the receiver a few days ago. It

worked the first time. Started putting the xmitter section together and finished this afternoon.

Keyed the xmitter and had no output to the final and in the process of making some tests

shorted something in the receiver circuit. I can hear hiss in the headphones. One thing I first

noticed was the LED in the AGC circuit did not blink like it did before when I removed the

power. So I started bridging components to see if I could fix it. I thought that C39 was bad

because I found that by taking a new 470 uF elec cap and bridging C17 100uf then putting it

back across C39-470uF, I would started receiving signals, but it slowly faded until the cap

discharged. I wouldn't think the U3-1m386 was damaged if I am hearing a hiss and then

getting a signal for a brief period. Or maybe it is shot. I am not sure where or how to trouble

shoot this. The schematic from the QRPp Spring '97 issue didn't have the voltages. Anyone

familiar with the SST have any suggestions? Thanks

Neil wa4chq

Date: Fri, 23 Mar 2001 21:41:46 -0500
From: neil <ntan@crosslink.net>
To: qrp-1@Lehigh.EDU
Subject: [94805] Re: PixieII
Message-ID: <3ABC096A.2482BC8F@crosslink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I built the southern version of the Pixie called the DixiePixie...

<http://www.qsl.net/wa4chq/radio.html>

For such a simple setup, it works pretty good. Have used it on 40m mostly but did try it with an 80m xtal with success. The simple receiver really tests you....good luck and have fun....

Neil wa4chq

Date: Fri, 23 Mar 2001 19:19:05 -0800
From: "blinn" <blinn@smgazette.com>

To: <badger@vbe.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94806] Re: [Help] Changing email address..
Message-ID: <000601c0b411\$309838e0\$7eb8e5d8@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Go to this link and scroll down the page to Unsubscribe... Once unsubscribed then you can subscribe again using your old email.
<http://qrp.lehigh.edu/lists/qrp-l/join.html> However, I can tell you from experience, your unsubscribe request will have to come from your old email address. I had to "Dummy" up an account to do this.

Good luck,
Bill

-----Original Message-----

From: Michael Melland <badger@vbe.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 23, 2001 4:07 PM
Subject: [Help] Changing email address..

>I'm joining the ranks of high speed digital cable access... and my email
>address is changing. Who/how do I change my list subscription so my
address

>gets changed to my new one ?

>

>old address: badger@vbe.com

>

>new address w9wis@charter.net

>

>Thanks

>

>

>--

>Michael Melland, W9WIS

>Winneconne, Wisconsin, USA EN54pc

>QRP-L #1656 QRP-ARCI #9875

>IPARC #252 SOC #142

><http://www.vbe.com/~badger>

>

>

--

Date: Fri, 23 Mar 2001 19:21:07 -0800
From: "blinn" <blinn@smgazette.com>
To: <badger@vbe.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94807] Re: [Help] Changing email address..
Message-ID: <000f01c0b411\$78e9b600\$7eb8e5d8@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OOPS! I meant to say that you can subscribe again using your NEW email...

Bill

-----Original Message-----

From: Michael Melland <badger@vbe.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 23, 2001 4:07 PM
Subject: [Help] Changing email address..

>I'm joining the ranks of high speed digital cable access... and my email
>address is changing. Who/how do I change my list subscription so my
address

>gets changed to my new one ?

>

>old address: badger@vbe.com

>

>new address w9wis@charter.net

>

>Thanks

>

>

>--

>Michael Melland, W9WIS

>Winneconne, Wisconsin, USA EN54pc

>QRP-L #1656 QRP-ARCI #9875

>IPARC #252 SOC #142

><http://www.vbe.com/~badger>

>

>

--

Date: Fri, 23 Mar 2001 19:22:27 -0800
From: "blinn" <blinn@smgazette.com>
To: <clem.law@usa.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94808] Re: 20 meter xtal question
Message-ID: <001801c0b411\$a8729860\$7eb8e5d8@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

14.060

-----Original Message-----

From: Richard Clem <clem.law@usa.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Friday, March 23, 2001 4:32 PM
Subject: 20 meter xtal question

I just ordered one of the Micro-80 QRP kits from Oleg, RV3GM, about which he had posted an announcement on the list. I couldn't resist getting a complete (almost) HF station for \$20. I decided to start with the 20 meter version.

While I'm waiting for the kit to arrive, I want to order the crystal. What is the preferred QRP frequency on 14 MHz? And does anyone have any suggestions as to where to buy one?

Thanks in advance for any leads!

73,
Rick W0IS

Get free email and a permanent address at <http://www.netaddress.com/?N=1>

--

Date: Fri, 23 Mar 2001 19:25:57 -0800
From: Patrick Armstrong <aa7fg@gte.net>

To: qrp-1@Lehigh.EDU
Subject: [94809] FS: TT Argosy Station \$425.00
Message-ID: <3ABC13C5.9534C3AF@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Argosy model 525 (analog) SSB/CW HF transceiver with matching 225 power supply and the following options installed;

MDL 226 calibrator
MDL 220 8-pole 2.4KHz SSB filter
MDL 217 8-pole 500 Hz CW filter
MDL 224 audio CW filter
MDL 223 noise blanker
MDL 1126 linear amp T-R switch

Radio and power supply are in pristine condition and work perfect. Also included are the MDL 705 deck mic and 700 hand mic. Ships with ALL original manuals... \$425.00, thanks...

Pat, AA7FG - Oregon

Date: Fri, 23 Mar 2001 22:33:02 EST
From: MertNellis@aol.com
To: qrp-1@lehigh.edu
Subject: [94810] RE:WANTED: Coil Winder
Message-ID: <f3.890e6a4.27ed6f6e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

What kind of a coil winder do you want?

For bobbin winding...Hi speed/low speed...wire size range?

Hand fed or machine fed

For single layer...hand fed or machine fed...wire size range?

Toroid winder...wire size range?

If you will describe what you want to wind, something might be suggested. I have built a few bobbin and single layer hand winders from my junk box. A turns counter is the most difficult to find but on a single layer, low speed machine you can count by eye maybe.

72 Mert W0UFO MNQRP

Date: Fri, 23 Mar 2001 15:18:18 -0700

From: "Ron, KU7Y" <ku7y@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [94811] Re: Wanted: Coil Winder
Message-ID: <000201c0b414\$e2f18ac0\$72c6a9d8@com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

Hmmmmmm,

I think I remember my Daddy talking about those things.....

: -)

cul, Ron KU7Y
Full time RVing somewhere in the West!
(Currently near Benson, AZ)
A Proud AZScQRPion
Those who trade liberty for security have neither.

Date: Fri, 23 Mar 2001 23:07:32 EST
From: RLucch2098@aol.com
To: qrp-1@lehigh.edu
Subject: [94812] fs: Sub "C" NiCad Cells>>CHEEP!
Message-ID: <53.40f604e.27ed7784@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

come with No markings but are from a major NiCad battery supplier and he uses them in his packs.

You can string them for a nice Nicad DC power pack for QRP work or anything for that matter, they can be used in some portable flaslights, drills, etc.

Price is \$17 for 12 shipped Priority.

Thanks es 73....Rich WA2RQY (1961)

WA2RQY's "confusion Radio" Web-Page

[Http://members.aol.com/rlucch2098/index.html](http://members.aol.com/rlucch2098/index.html)

RLUCCH2098@aol.com

"Keep those heaters on"

Date: Fri, 23 Mar 2001 23:11:07 EST
From: RLucch2098@aol.com
To: qrp-1@lehigh.edu

Subject: [94813] fs: AUDIO AMP BOARDS-BUILT \$10ppd
Message-ID: <b4.132060ce.27ed785b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi All;

I got a bunch of Audio Amplifier boards with 4 transistors on them.
Has 3-2n3904 and 1-2n3906 with 8 ohm output, run off about 5-12vdc.
The size is about 4" x 3" for 3units.
And about 5" x 3-1/2" on 4 others.
The sizes and placement of components may vary a bit from this picture.

<http://members.nbci.com/wa2rqy/audioamp.jpg>

Use it in your portable qrp rig, built it into something or use with your
xtal radio.

Price is \$10ppd.

Thanks es 73....Rich WA2RQY (1961)

WA2RQY's "confusion Radio" Web-Page

<Http://members.aol.com/rlucch2098/index.html>

RLUCCH2098@aol.com

"Keep those heaters on"

Date: Fri, 23 Mar 2001 20:14:37 -0800
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94814] Re: Nominal parts values, substituting parts
Message-ID: <5.0.0.25.0.20010323200938.022a9a10@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:07 PM 3/23/01 -0600, you wrote:

>Another convention in construction projects back in ancient times, was that
>a nominal part value, meant if you had a 270 pf cap, then that was what the
>author had in the junk box, but he probably had enough inductance in the
>tuned circuit that the desired tuning range could be covered by a 250 pf
>cap, or whatever "Was in the ball park" of what the author used. Certainly,
>with a variable cap, anything with a larger maximum could be used with
>corresponding dilution of tuning resolution, if it was WAY bigger. Thus,
>you could use 365 pf successfully, but 1000 might tune pretty "touchy"

This may answer a question i have...I made a TRF receiver for listening to
the local ball game. It will tune kinda sloppily, i can hear the adjacent
frequency as it slides to the next station. To make the tuning 'sharper', i
should add capacitance? (216uH coil and 365pF air variable cap)

Date: Fri, 23 Mar 2001 20:53:02 -0700
From: "Ron, KU7Y" <ku7y@qsl.net>
To: DYARNES@aol.com, qrp-1@lehigh.edu
Subject: [94815] Re: KU7Y Sighted "Out Of His Hole" In A Tucson Restaurant
Message-ID: <002201c0b417\$e19a30c0\$72c6a9d8@com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

Hi All,

Wow, golf cart mobile sounds like a good plan to me! One can talk while the other shoots!

However, don't forget that this weekend is the SSB WPX contest so space might be hard to find.

But I'm game to give it a try!

Wheeeeeeee.....

cul, Ron KU7Y
Full time RVing somewhere in the West!
(Currently near Benson, AZ)
A Proud AZScQRPion
Those who trade liberty for security have neither.

Date: Fri, 23 Mar 2001 22:12:31 -0600
From: "anonham2001" <anonham2001@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94816] new ham
Message-ID: <013301c0b418\$a6f89e60\$36391840@hppav>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

or better yet run information for new hams who are not builders!

----- Original Message -----

From: <Shephed@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, March 22, 2001 2:47 PM
Subject: Club Notice!

Hello everyone,
Are you getting tired of the same old flame wars, endless postings from grumpy old men about OT postings, and general silliness?

Then why not try something totally different. How about a club where OT postings are welcome, (hey life's boring without the occasional joke) where you can download a club newsletter each month, a place where you can discuss anything from electronics at the sub-atomic level to last night's episode of South Park and much more.

Well if you enjoy Ham Radio, have a sense of humor, and have knowledge in using the delete key to prevent you from reading messages that do not interest you, head on over to <http://www.fpqrp.com> and join the Flying Pigs QRP Club International, W8PIG.

We have:
NO DUES!
FREE CLUB NEWSLETTER
CONTESTS
T-SHIRTS
PROJECTS
WEEKLY NETS
E-MAIL REFLECTOR
CLUB WEBPAGE
AND MORE!

Act now, sign up for your totally free membership (ok, it's always been free but that sounds cool) today.

PLEASE NOTE:
The Flying Pigs are a great group fun loving Hams, and in no way is trying to replace, or downplay the contributions that QRP-l has given the QRP community over the years. This is simply a shameless plug for a great club.

72, oo
Dan, N8IE
Flying Pigs QRP Club, International

Date: Fri, 23 Mar 2001 22:28:45 -0700

From: Dan Tayloe <dtayloe@home.com>
To: qrp-l@Lehigh.EDU, preacher102677@juno.com
Subject: [94817] Re: Headphones.
Message-ID: <3ABC308D.21C95A79@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have been tracking the progression on headphones for quite some time now. Most headphones are 16 ohms, but a few are as high as 32 ohm.

To me the most important specification is the headphone efficiency as defined by db/mW. The worst I have seen is a \$5 pair of Koss that have 82 db/mw. The absolute best I have found is also a Koss that is rated at 112 db/mw (\$19). 30 db of efficiency is a really big difference!

Nominal good is 104 db/mW. Nominal poor is 98 db/mW.

Headphones are very inefficient connected to most rigs. 10 mA, a really big signal for a pair of headphones is only 0.3v pk and requires almost 20 mA of current. At 12v, spending 12 mA to get a 0.3v swing across a pair of headphone is a big waste of power. Much more efficient would be to take the audio output, drive a 1000 ohm side of a 1000 ohm to 8 ohm transformer, and feed that to the headphones.

I think that is why early headphones were much higher impedance than the current stuff.... They did a better job utilizing the audio energy at hand.

- Dan Tayloe, N7VE Phoenix, Az; Az ScQRPions.

>Good day to all!

>What's the deal with headphones? Take my MS 15 for instance. I wanna
>have earbuds with the thing for portable operations while fishing. There
>is some mystery surrounding headphones. Should I be using high or low
>impedence headphones? What's the diff between the two?

Date: Fri, 23 Mar 2001 23:44:07 -0800
From: John Rollins <kd7bcy@teleport.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [94818] SMK-1 almost done
Message-ID: <a05010400b6e1fdf3f1bd@[216.26.3.9]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Wow... Awful small. It showed up in the mailbox on Thursday, and now

after a few hours tonight it is almost finished. Damn, that little transformer is a nightmare! That one piece took me a good 30 minutes just to figure out how to get it to stay on the board!! And I thought the transistors were bad... But with everything in place, it seems to be working! I plugged it into the power supply and a small speaker, and although there is almost no volume with a speaker, I can hear a bit of a hiss... It works! I guess I'll take those wires out and wait until the NJ QRP case comes. Unless I get impatient and plug an antenna in... :-)

--

```
/-----\  
|  http://jrollins.tripod.com/          |  
|  KD7BCY      kd7bcy@teleport.com      |  
\-----/
```

Date: Sat, 24 Mar 2001 06:14:17 -0500
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [94819] Super Tee ?
Message-ID: <20010324.062754.-242617.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Please tell me more about the >super tee< . . .

. . . AND . . .

Where can I find a schematic?

John
N3AAZ
FM 19 xa

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Sat, 24 Mar 2001 13:09:35 +0000
From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [94820] Re: WANTED: Coil Winder
Message-ID: <3ABC563F.A068749@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There is a coile winder on ebay;
<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1124628210>

Coil winders show up on ebay fairly regularly so if you are willing to wait and watch you will likely find what you want.

I am somewhat more inclined to make the Gingery one.

Michael Neverdosky N6CHV AMA 77292
Click here and send a blank e-mail to receive The Netwriting Masters course...
It's an intensive 5-Day e-mail course that shows you how to become an effective e-persuader. <mailto:twmswebbible@sitesell.net>

MertNellis@aol.com wrote:

>
> What kind of a coil winder do you want?
> For bobbin winding...Hi speed/low speed...wire size range?
> Hand fed or machine fed
> For single layer...hand fed or machine fed...wire size range?
--

Date: Sat, 24 Mar 2001 08:31:52 -0500
From: "William K. Harding" <k4ahk@ix.netcom.com>
To: dtayloe@home.com, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [94821] Re: Headphones.
Message-ID: <200103241337.IAA20354@granger.mail.mindspring.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

I can certainly agree with your comments, Dan. I had been very disappointed with the output level of a couple of homebrew receivers when using a pair of cheap headphones. From my local Walmart store, I purchased a pair of Sony MDR-W08L headphones for less than \$10. They are 16 ohms with a sensitivity of 104 dB/mW. The improvement was amazing.

Bill - K4AHK
Burke, VA FM18

>From: Dan Tayloe <dtayloe@home.com>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Re: Headphones.
>Date: Sat, Mar 24, 2001, 12:28 AM
>

>I have been tracking the progression on headphones for quite some time
>now. Most headphones are 16 ohms, but a few are as high as 32 ohm.

>
>To me the most important specification is the headphone efficiency as
>defined by db/mW. The worst I have seen is a \$5 pair of Koss that have
>82 db/mw. The absolute best I have found is also a Koss that is rated
>at 112 db/mw (\$19). 30 db of efficiency is a really big difference!

>
>Nominal good is 104 db/mW. Nominal poor is 98 db/mW.

>
>Headphones are very inefficient connected to most rigs. 10 mA, a really
>big signal for a pair of headphones is only 0.3v pk and requires almost
>20 mA of current. At 12v, spending 12 mA to get a 0.3v swing across a
>pair of headphone is a big waste of power. Much more efficient would be
>to take the audio output, drive a 1000 ohm side of a 1000 ohm to 8 ohm
>transformer, and feed that to the headphones.

>
>I think that is why early headphones were much higher impedance than the
>current stuff.... They did a better job utilizing the audio energy at
>hand.

>
>- Dan Tayloe, N7VE Phoenix, Az; Az ScQRPions.

>
>>Good day to all!
>>What's the deal with headphones? Take my MS 15 for instance. I wanna
>>have earbuds with the thing for portable operations while fishing. There
>>is some mystery surrounding headphones. Should I be using high or low
>>impedence headphones? What's the diff between the two?

Date: Sat, 24 Mar 2001 07:01:32 -0700
From: Dan Tayloe <dtayloe@home.com>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [94822] Re: Headphones.
Message-ID: <3ABCA8BC.7A88437A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>Headphones are very inefficient connected to most rigs. 10 mA, a really
>big signal for a pair of headphones is only 0.3v pk and requires almost

>20 mA of current. At 12v, spending 12 mA to get a 0.3v swing (0.6v pk-pk)
>across a pair of headphones is a big waste of power.

Oops.... I meant 10 mW, not 10 mA is a really big signal for a pair of headphones.

Other alternatives include running the headphone drivers off of 3v or less, but only if you have an efficient means of getting 3v from your 12v supply, such as a switching power supply. My daughters MP3 player which uses a single 1.5v AA cell has about the right voltage for such an application.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Sat, 24 Mar 2001 09:15:56 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: <Undisclosed-Recipient:@nss4.cc.lehigh.edu;>
Subject: [94823] WB8RCR's eMail
Message-ID: <00d901c0b46c\$f705e440\$010044c0@baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Gang

Over the next 3-4 months, I'm going to be travelling a lot. In general, I won't have access to email when I'm away so my response is going to be slow.

This is especially a problem for QSLMaker related email which I am already way behind on. Many QSLMaker emails require quite a bit of research to formulate a reply. Since I will have little/no time for this digging, and won't even have access to the necessary resources when I'm away, they are probably going to suffer the worst.

I will be taking my K1 on most trips, so at least I should be able to get on the air from time to time. But these business trips also tend to involve a number of evenings, so my operating time will probably be hurt, too.

The good news is that there are generally hams wherever I'm going. I've already started planning on meeting some Atlanta folks, and later in the spring plan to travel to Edegem. If there are any hams in that neighborhood, I would be very interested in meeting them - I haven't been over that way in a decade. I will also be in the Houston area (well, actually Columbia Lakes - a fair distance) in a couple of weeks, but that trip appears to be already booked almost 100% of the time I'm on the ground,

although a burger in Angleton on Tuesday evening might be a possibility.

I apologize in advance for the delays, and I will try to be diligent about catching up when I am back home.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Sat, 24 Mar 2001 07:35:24 -0700
From: "Steve" <ki0ky@dmea.net>
To: <qrp-l@lehigh.edu>
Subject: [94824] FS: Ten-Tec Scout
Message-ID: <002801c0b46f\$a9fbe0c0\$6340a9d8@desktop>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale: TenTec Scout, 5-50 watt transceiver with 80, 40,20, and 10 meter band modules, noise blanker, microphone, power cable, manual. It is in excellent operating condition, with a couple of small scratches on top rear and side rear of the case. It has been used only been four or five times since factory alignment two years ago. I am selling to replace it with a USB, MARS capable radio. Price is \$420 firm, including conus shipping.

Steve Schroder KI0KY Hotchkiss, CO

Date: Sat, 24 Mar 2001 09:37:36 EST
From: K5BDZ@aol.com
To: bvarc@clarc.org, hqrp@stevens.com, qrp-l@lehigh.edu
Subject: [94825] FS: FC700 Yaesu Antenna Tuner
Message-ID: <12.a92b14b.27ee0b30@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

FS: Yaesu FC700 antenna tuner. Excellent condition.
Bandswitched 3.5 MHz through 29 MHz (includes all WARC bands)
Builtin wattmeter with 150 watt & 15 watt scales, built in dummy load,

lighted meter
small compact size
\$150.00 plus\$8.00 Shipping U.S

Please reply direct to K5BDZ@aol.com

Bill K5BDZ

Although not my web page, a good idea of what the tuner looks like can be found at:
for picture of tuner, see: <http://www.pins.no/la3tq/fc700.htm>
for inside pix and schematic, see: <http://www.pins.no/la3tq/fc700-2.htm>

Date: Sat, 24 Mar 2001 08:51:08 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "Jay Henson" <jbhenson@zebra.net>, <hamjoel@juno.com>, <fpqrp-1@mpna.com>, <qrp-1@lehigh.edu>
Subject: [94826] Re: [fpqrp] Thank u.... thank u
Message-ID: <00ba01c0b471\$df767380\$7729aec7@dandooley>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

"The best of the Carpenters"? Man, you is sick..... Oh well, I guess considering the 8 track, and the... oh well..... I'll crawl back under my rock now.

<big SMIRK>

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
Web site: <http://www.qsl.net/wb9tka>
SOC #198, FPQRP # -104
May Goddes love blest ye alle
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Jay Henson
To: hamjoel@juno.com ; fpqrp-1@mpna.com ; qrp-1@lehigh.edu
Sent: Saturday, March 24, 2001 8:38 AM
Subject: Re: [fpqrp] Thank u.... thank u

Joel,

Way to go! I notice a bit of tension mixed with jubilation and pride in your note. Is there a need for some outside shrinkology?

You know what they say about DR's - The DR that treats himself treats a fool!

Would you like one of our distinguished icons to wade into this and provide some relaxation therapy tips? We gots plenty of them here. Me personally - I recommend sitting on the veranda, patio, back porch, whatever you got with a glass of Wal Mart's best cheapest fruit of the vine and listening to an 8 track tape of "The Best of the Carpenters". Man - It don't get any better than that! :-)

Take care of yourself DR. and OO!

See you on the radio.

Jay

AJ4AY Mobile, AL

FISTS #7917 AICI #8131 SOC#220 FP# - 115

Date: Sat, 24 Mar 2001 08:21:26 -0700
From: "Conant, Paul" <paul.conant@lmco.com>
To: "Qrp-L (Post To List) (E-mail)" <qrp-l@lehigh.edu>
Subject: [94827] [OT] Old Radio Books
Message-ID: <675067CF647BD4118DEA00508BE32AB47EAA41@emss02m09.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I ran across an interesting old book for \$4.00 at Half-Price Books last night. Drake's Radio Cyclopedia, A Complete and Non-Technical Reference Work Easy to Read and Easy to Use, Covering over 1,500 Subjects, Arranged Alphabetically, Including Instructions for Building, Operating and Testing Receivers, Power Units and Radiophone Equipment; Arranged for Use by Set Builders and Designers; Service and Repair Men, Dealers and Salesmen; Experimenters and Students; Set Owners and Operators; with 1000 Illustrations, Circuit Diagrams, Constructional Layouts and Graphic Curves All Made Especially For This Book. Published by Frederick J. Drake & Co., Chicago, Copyright 1931, Fourth Edition.

This book is a goldmine of information. The fundamentals, of course, have not changed, but it is interesting to read about them from a 1920's or 30's

perspective. There are a number of curiosities, things like: underground antennas; a device for connecting to power lines to use them as antennas; more about coils than you can imagine, including how to wind non-inductive coils; very early television. There are many drawings and descriptions of vintage radio components, how they were made and how they worked. It also covers topics that are revisited here from time to time; antennas, regeneration, grounds, counterpoises, coils, coils, coils, and many more.

This is not as good as the Barnes and Noble bargain on the 2001 ARRL Handbook, but a bargain, nevertheless.

By the way, I picked up a new state, Iowa, in a 2-way QRP QSO on 30-meters this week. I was at 600 mW; he started out QRO, but reduced to 4 watts.

72,

Paul, WQ5X

Date: Sat, 24 Mar 2001 11:10:27 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: John R Kirby <n3aaz-qrp@juno.com>, qrp-l@Lehigh.EDU
Subject: [94828] Re: Super Tee ?
Message-ID: <20010324160718.MIBF492.invictus@n8et>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

John -

The Super Tee was designed by W3TS, and was published in QRP Quarterly June 1992 and also in SPRAT 72. It was based on a design by DJ2LR that was published in Dec 74 QST.

If you can not find any of those articles, let me know and I will scan a schematic and put it on my web site. I also do a kit of parts for the Super Tee.

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sat, 24 Mar 2001 09:55:11 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [94829] 2-mW beacon 21.061 de n0tu
Message-ID: <013201c0b483\$311132a0\$6a211d82@sg2939h.col.hp.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Gang,

Just for fun I'm running a 15m beacon for awhile.

Time: 1600UTC to 2000 UTC (9-1pm MST).

Rig: K2 with dipole at 2 milliwatts(or at least my OHR WM-2 says so?) .

Sending:

v v v v v de n0tu/QRPpp/b ** XXXX XXXX** -
(the secret word is two words both 4 letters each) @ 18 wpm

If heard please send rpt. Off list/direct PLEASE. TU de Steve/n0tu

Date: Sat, 24 Mar 2001 09:52:33 -0700
From: Tim Hodges <7twh@ttc-cmc.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [94830] K1 as a beginners rig?
Message-ID: <3ABCD0D1.84DD8AA7@ttc-cmc.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All,

My nephew asked me about building a K1. Here are his details:

College engineering student, no-code technician, likes hiking, planning on upgrading this summer. Very little building experience. I told him as a first kit the K1 was probably too hard and that he should find a smaller simpler kit to cut his teeth on.

Questions:

- 72
Tim
--

"Through our scientific genius, we have made this world a neighborhood; now through our moral and spiritual development, we must make of it a brotherhood." - MLK, Jr.

+++++

I think the K1 is perfect for a beginner as long as they have soldered something before. The manual is written for beginners. It's an absolutely fantastic kit.

Cheers,
Robert
VE3RPF

```
----- Original Message -----
From: "Tim Hodges" <7twh@ttc-cmc.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, March 24, 2001 11:52 AM
Subject: K1 as a beginners rig?
```

Date: Sat, 24 Mar 2001 12:05:18 -0500
From: "Ken Simpson, W8EK" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [94833] TenTec Paragon and other TenTec accessories FS
Message-ID: <021e01c0b484\$9c0c2be0\$6791d4d1@toshiba>

For Sale:

TenTec 585 Paragon HF transceiver.
This is a full featured HF transceiver, with general coverage receiver built in. Covers all ham bands from 160 thru 10 meters, including the WARC bands. Has pass band tuning, notch filter, variable bandpass (width), speech processor, variable width noise blanker, and -- best of all -- TenTec's famous full QSK on CW. It also has memories, squelch and things like that. Although it will put out 100 watts, it also has a front panel control that will bring you down to a couple of watts.

This particular unit is in very good shape, both electrically and cosmetically. The "enter" button on the key pad has some slight (and I mean slight) wear. I can not find a scratch on it. Full manual included for \$700.

Other TenTec items:

TenTec 280 power supply.
Good for 20 amps at 13 V DC.
Very rugged power supply, probably the best one TenTec ever made. Includes meter on front panel, and dual pass transistors, with over voltage protection.
Can be used with Paragon listed above.
Manual included for \$120.

TenTec hand microphone with 4 pin plug.
Matches most any of the modern TenTec rigs that take the 4 pin plug, including the Paragon listed above. \$ 30

TenTec KR-50 keyer.
Iambic, with dit and dah memories, if desired (they can be turned on or off). Built in Iambic paddles, 12 V DC or 110 V AC power, and reed

relay output to key most any rig. \$ 60

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson

E-Mail to W8EK@fdt.net or W8EK@usa.net

Voice Phone (352) 732-8400

Date: Sat, 24 Mar 2001 11:22:47 -0600
From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: qrp-1@Lehigh.EDU
Subject: [94834] Re: 2-mW beacon 21.061 de n0tu
Message-ID: <000d01c0b487\$0ce51be0\$69713ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

I know this is supposed to be a challenge but can you give a hint as to what frequency the beacon is on?

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

aa5tb@arrl.net

<http://www.geocities.com/aa5tb>

Date: Sat, 24 Mar 2001 11:23:54 -0600

From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [94835] Re: 2-mW beacon 21.061 de n0tu
Message-ID: <001101c0b487\$348219a0\$69713ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Never mind! Dumb question. I should of read the subject line better :-)

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
aa5tb@arrl.net
<http://www.geocities.com/aa5tb>

Date: Sat, 24 Mar 2001 17:33:25 +0000
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: 7twh@ttc-cmc.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94836] Re: K1 as a beginners rig?
Message-ID: <5.0.2.1.0.20010324165730.009f9b80@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Tim et.al.,

The question as to whether someone should or should not build a specific kit is a very difficult question.

There are, IMHO, two main issues involved. How patient and methodical is an individual in doing any project and how much time they are willing to spend in learning things that they do not know. And it helps to have an experienced individual handy to help when some instruction or sequence isn't all that clear. I think statistically in the US 50% of the population is functionally illiterate. And that is scary.

If they can read and follow instructions well, then the K1 would not be all that

difficult

as the assembly instructions are well written and what is very helpful to the first time

builder is the parts list in the appendix with photographs of individual parts up close

and personal to aid in parts recognition.

And the issue of tools and soldering techniques crops up and where and how to learn to do a good job of soldering. The guys and girls at Elecraft, Small Wonder Labs, Red Hot Radio, Oak Hills Research, and all the other places will tell you that the most

errors are do to poor soldering techniques on the part of the builder a mistaken part

placement is probably #2 on the list.

Starting with a cheaper kit has good and bad points. Good in that it is cheap and if you totally destroy the kit then you are not out all that much. But I'd tell the beginner

to treat the kit like it cost \$800 and just take it slow and easy. There is no time line,

but don't drag it out to the point that they will lose interest or become frustrated. Like

all things in life it does take time and the cliché that mileage may vary applies very

well here. Everybody takes a different amount of total time for the same kit.

What

matters most is that the builder had fun, learned something new, and really enjoy the experience and came out of the project with something that they can use and take pride in.

I often wonder if in this age of computer toys that since most people have a digital camera if one could not have a beginner do photos of their progress and then look at the work over the Internet and give help that way, but again there are issues with that also.

The Small Wonder Labs SWL-40+ series with the online Elmer101 notes or the book available from NorCal (I think it is still available in reprint) or Paul Harden,

NA5N, should to a long way to helping the beginner get started. Dave Benson, NN1G,

does not really give a part by part assembly manual. But I did do a step-by-step list for the GM-30 series a long time ago and it is still on my web page.

Since I have a SW-30+ on order, as I build it I will create a similar list and do a series of digital photos as a guide that may help someone. The SW-40+ costs \$60 from Small Wonder Labs (<http://www.smallwonderlabs.com/>) and again was used in the Elmer101 series. The issue was Vol. VI, No. 3 from Autumn 1998 QRPp for the Elmer101 Special Issue. The web page is for Mike Maiorana (no call

shown in QRPP, but he had call KF4TRD and is now KU4Q0)

<http://www.qsl.net/kf4trd/>

and I just bopped over there and he does have a series of steps in the assembly section on parts to install and some check points. And loads of other goodies.

Again, my recommendation to an individual is dependent upon their experience and patience level.

Hope this helps and I do recommend the ARRL Handbook, Paul Harden's Data Book, and a few web page references listed above as must read items for any beginner. And I have probably left out a ton of other references and for that I apologize. With over 4billion web pages to sift through it is a time consuming job. I heard on the radio yesterday that 65% of the AZ population now uses the Internet regularly. That is an amazing stat.

FYI

Chuck Adams, K7Q0 CP-60
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo> <http://moon.pr.erau.edu/~adamsc>

TMPS-2001 Mar 15, 2001 Q's = 380 States = 47 Counties = 316 DXCC = 12
SWL-30 with CMOS 3 keyer and HB Iambic Paddle 0.500W and vee-beam

States Needed AK DE VA

DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6

Date: Sat, 24 Mar 2001 10:47:25 -0700
From: "Conant, Paul" <paul.conant@lmco.com>
To: "'k7qo@earthlink.net'" <k7qo@earthlink.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [94837] RE: K1 as a beginners rig?
Message-ID: <675067CF647BD4118DEA00508BE32AB47EAA47@emss02m09.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Vectronics offers an inexpensive kit just for the purpose of teaching beginners how to solder. Check their ad in a QST or CQ magazine.

I did what Chuck recommended when building my VEC-1130K and VEC-1230K receiver and transmitter pair. I took my time and was methodical, and still

completed each in one sitting. A little time and a little money added up to a lot of fun.

73,

Paul, WQ5X

-----Original Message-----

From: Chuck Adams, K7QO [mailto:k7qo@earthlink.net]

Sent: Saturday, March 24, 2001 11:33 AM

To: Low Power Amateur Radio Discussion

Subject: Re: K1 as a beginners rig?

And the issue of tools and soldering techniques crops up and where and how to learn to do a good job of soldering.

Starting with a cheaper kit has good and bad points. Good in that it is cheap and if you totally destroy the kit then you are not out all that much. But I'd tell the beginner to treat the kit like it cost \$800 and just take it slow and easy.

Date: Sat, 24 Mar 2001 11:13:34 -0700

From: "Steve/n0tu" <n0tu@webaccess.net>

To: "QRP-L" <QRP-L@lehigh.edu>

Subject: [94838] Re: 2-mW beacon 21.061 de n0tu - NOW 15mW

Message-ID: <016401c0b48e\$24679de0\$6a211d82@sg2939h.col.hp.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Cranked up the megawatts to 15mW for the last 2-hrs. Moved a little closer to 21.061 their was a euro station calling cq on 061 when I started up.

-----Original Message-----

Subject: 2-mW beacon 21.061 de n0tu

>Hey Gang,

>

>Just for fun I'm running a 15m beacon for awhile.
>
>Time: 1600UTC to 2000 UTC (9-1pm MST).
>
>Rig: K2 with dipole at 2 milliwatts(or at least my OHR WM-2 says so?) .
>
>Sending:
>
>v v v v v v de n0tu/QRPpp/b ** XXXX XXXX** -
>(the secret word is two words both 4 letters each) @ 18 wpm
>
>If heard please send rpt. Off list/direct PLEASE. TU de Steve/n0tu
>
>

Date: Sat, 24 Mar 2001 18:01:12 -0000
From: "Richard Matthews" <prm@hiwaay.net>
To: "q" <qrp-l@Lehigh.edu>
Subject: [94839] OP: PSK beacon
Message-ID: <002501c0b48c\$6a75cca0\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If anyone reading QRP-L wants to try the 50 milliwatt beacon it is on right now at 10.140 mhz at 1000hz off

reception reports out to 350 miles have been received thus far. The beacon ceases transmission at 1900 zulu.

73

Richard, WA4NWW WO

Date: Sat, 24 Mar 2001 13:28:19 -0500 (EST)
From: "John L. Sielke" <w2agn@pobox.com>
To: qrp-l@lehigh.edu
Subject: [94840] Snap Transmitter?
Message-ID: <XFMail.010324132819.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

MIME-Version: 1.0

I know I am bringing a Snap transmitter kit for someone to Atlanticon. I just forgot who. Anyway, you can probably find me. 6'2" 210 pounds, glasses, grey hair and beard. I'll be arriving Friday afternoon. White Ford Explorer with Texas Bugcatcher antenna and call sign plates.

Date: Sat, 24 Mar 2001 11:37:59 -0700
From: "Steve" <ki0ky@dmea.net>
To: <qrp-1@lehigh.edu>
Subject: [94841] RE: FS Ten-Tec Scout
Message-ID: <004601c0b491\$8d984c80\$6340a9d8@desktop>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Scout has been spoken for.

73,
Steve Schroder

Date: Sat, 24 Mar 2001 18:43:20 -0000
From: "Tom Azlin" <tom@nilza.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94842] Re: PSK beacon
Message-ID: <002901c0b492\$4cacecc0\$6301a8c0@nilza.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Richard,

Nothing heard here in Northern Virginia at N4ZPT. I checked 10139, 10140 and 10141 with an FT1000, 50 ft of 9913 and an R8 vertical whose base is at 30 ft. Logger says I am about 507 miles from you so perhaps that is a bit far during the day??

73, Tom

p.s. did not know if your PSK31 carrier was 10.140 MHz + 1000 Hz or - 1000 Hz or spot on 10.140

----- Original Message -----

From: "Richard Matthews" <prm@hiwaay.net>

> If anyone reading QRP-L wants to try the 50 milliwatt beacon it is on right

> now at 10.140 mhz at 1000hz off

>

> reception reports out to 350 miles have been received thus far. The beacon

> ceases transmission at 1900 zulu.

Date: Sat, 24 Mar 2001 12:46:40 -0700

From: "Steve/n0tu" <n0tu@webaccess.net>

To: "QRP-L" <QRP-L@lehigh.edu>

Subject: [94843] SMK-1 in a case.

Message-ID: <01bf01c0b49b\$26228160\$6a211d82@sg2939h.col.hp.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Finally got my SMK-1 into a useable case for throwing into the pack or pocket. Used some really thin PC board to solder up a little box. Drilled the holes while the material was flat. Painted it and used rubber bands to hold it's top on till I can find some small tiny magnets to glue in to the case to hold the top on. So I can pop the lid on and off for show and tell.<g> Next challenge is a mini match to take with the SMK. (soon)

Here's a few pics.

On the bench - <http://www.webaccess.net/~s&p/images/SMK1wPK1.jpg>

Lid off and looking down - <http://www.webaccess.net/~s&p/images/SMKopen.jpg>

Steve/n0tu

Date: Sat, 24 Mar 2001 19:43:55 +0000

From: Euramcom <mel@euramcom.freemove.co.uk>

To: <dandooley@pipeline.com>

Cc: <qrp-l@lehigh.edu>

Subject: [94844] Re: [fpqrp] Thank u.... thank u

Message-ID: <E14gu6q-0001iu-00.2001-03-24-19-54-01@cmailg1.svr.pol.co.uk>

Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

On Sat, 24 Mar 2001 08:51:08 -0600, dandooley@pipeline.com=
wrote:
>"The best of the Carpenters"? Man, you is sick..... =
Oh
>well, I
>guess considering the 8 track, and the... oh well..... I'll=
crawl
>back
>under my rock now.
>
><big SMIRK>
>
>Dan W. Dooley WB5TKA Bedford, Texas EM12ku
> e-mail to: dandooley@pipeline.com
> Web site: <http://www.qsl.net/wb9tka>
>SOC #198, FPQRP # -104
>May Goddes love blest ye alle
>"Ancient Pistol, I do partly understand your meaning."
>
>
>
>----- Original Message -----
>From: Jay Henson
>To: hamjoel@juno.com ; fpqrp-1@mpna.com ; qrp-1@lehigh.edu
>Sent: Saturday, March 24, 2001 8:38 AM
>Subject: Re: [fpqrp] Thank u.... thank u
>
>
>Joel,
>
>Way to go! I notice a bit of tension mixed with jubilance and=
pride
>in your
>note. Is there a need for some outside shrinkology?
>
>You know what they say about DR's - The DR that treats himself
>treats a
>fool!
>
>Would you like one of our distinguished icons to wade into this=
and
>provide
>some relaxation therapy tips? We gots plenty of them here. Me
>personally -

>I recommend sitting on the veranda, patio, back porch, whatever=
you
>got with
>a glass of Wal Mart's best cheapest fruit of the vine and=
listening
>to an 8
>track tape of "The Best of the Carpenters". Man - It don't get=
any
>better
>than that! :-)
>
>Take care of yourself DR. and OO!
>
>See you on the radio.
>Jay
>AJ4AY Mobile, AL
>FISTS #7917 ARCI #8131 SOC#220 FP# - 115

I've just taped ABBA gold for the car from my GRAND-DAUGHTERS=
CD!

Now what's really worrying me is I enjoyed it, so I copied it=
again
for my works panel van tapedeck!

Regards

Mel

--72 and 73 de Mel Evans, e-mail mel@euramcom.freeseve.co.uk

Mel Evans GM6JAG Edinburgh Scotland
Home of the last HW9

Visit <http://www.euramcom.freeseve.co.uk> for
US Euro Ham Radio Equivalent Parts and info,
Add-a-Link page let's you add your own pages instantly

Date: Sat, 24 Mar 2001 15:21:26 -0500
From: "David Porter" <aa3ur@home.com>
To: <w2agn@pobox.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94845] Re: Snap Transmitter?
Message-ID: <001501c0b4a0\$01923520\$926e0941@jamison1.pa.home.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You think you're the only 6'2" 210(+)pound guy wearing glasses with a grey hair and beard??????

NOT!!!

David Porter
aa3ur@home.com
AA3UR

----- Original Message -----

From: "John L. Sielke" <w2agn@pobox.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, March 24, 2001 1:28 PM
Subject: Snap Transmitter?

> I know I am bringing a Snap transmitter kit for someone to Atlanticon. I just
> forgot who. Anyway, you can probably find me. 6'2" 210 pounds, glasses, grey
> hair and beard. I'll be arriving Friday afternoon. White Ford Explorer with
> Texas Bugcatcher antenna and call sign plates.

Date: Sat, 24 Mar 2001 15:30:50 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: "Allan Owen WA3OWT" <aowen@voicenet.com>
Subject: [94846] PSK31 Audio Beacon - construction tips #1
Message-ID: <00a001c0b4a1\$52db6c20\$085daccf@ghlpt4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

Here's a message from our PSK31 Audio Beacon project captain, Al Owen, WA3OWT, concerning some ideas, suggestions for building your beacon kit.

73, George N2APB

n2apb@amsat.org

PSK31 Audio Beacon web page:

<http://www.njqrp.org/psk31beacon/psk31beacon.html>

Atlanticon QRP Forum web page:

<http://www.njqrp.org/atlanticon/index.html>

=====
PSK31 Audio Beacon Kit -- More Construction Tips
=====

Now that Atlanticon is drawing near, and all pre-registered attendees have or will receive their PSK31 audio beacon kits in the mail, it is time to get serious. If you want your kit to work well and you don't enjoy trouble-shooting, here are some "lessons learned" from some of the first circuits being constructed.

N2APB has put some important hints in the kit manual, on page 10 for customizing your beacon, and page 12 in the hardware description. And N2CX has sent out several recent messages describing enhancements that beacon builders should follow. We hope that as problems and solutions are found, they will be sent to the whole group, so we may all benefit.

This process might parallel an auto race like Daytona, where, even though the teams are in direct competition on the track, many times the pit crews and race staff have been known to help their peers on the other teams, with tools, equipment and other assistance. Makes for a better competition for all.

So, in that spirit, I would like to start out by giving everyone the benefit of what I have found so far.

In the first PSK31 audio beacon circuit I have seen, the SX28 processor drew a little over 100 mA of current at 50MHz and 5VDC. Don't know why, it was an older date code IC than those in our njqrp kits, and I could not get the oscillator to run at 50MHz at first. Maybe I damaged some of the CMOS devices inside the IC, trying to run it below 5V, I do not know.

However, it just drew too much current for the little 5V regulator in the kit and a brand new Panasonic industrial grade alkaline 9V battery. The battery voltage was around 4.5 and the 5V regulator output was just below 2 volts. After connecting a bench supply at 9V onto the battery clip, the regulator was still out of regulation at about 4 volts. The LM78L05 regulator is rated for 100 mA, but in this one circuit it did not make it.

So, some builders might want to follow N2APB's advice in the manual on page 12 and upgrade the regulator to it's big brother, the LM7805, which will fit right into the same spot.

The 9V battery low-voltage problem is also easy to solve -- parallel two batteries! Just get another battery clip and wire it to the board input in parallel with the first one.

A different fix for the battery current problem, is to get the Radio Shack #270-407 snap battery holder which takes 8 AA size cells and connects right up to the same 9V battery clip terminals.

While you are at the Shack, you might as well get a DC power jack for your kit, one for the speaker output and a potentiometer for the audio volume control as well. This is described in your manual on page 10.

After those changes were made, George's software came right up and the PSK signal out of the R-2R ladder measured 2.5V on DC and 2 to 3 volts on an AC meter scale, just like it says in the manual. This is more than you need to drive an 386 audio amp IC, so I adjusted the volume control to get a clean output waveform without clipping the peaks. This measured about 3 Vpeak or 6 Vpeak-to-peak with 50 ohm resistor as a load.

So the board really did not require much trouble shooting. Bad luck for me, since I even bought an inexpensive analog meter at RS for \$10, just to prove you don't need a fully equipped electronic lab to build and test this kit. In fact, at this point, I hooked up the PSK signal from the board into a PC running Digipan and got my call and code characters just as described in the manual.

Next came the fun part. In accordance with N2CX's enhancement ideas, I embarked on a quest to find the ultimate warbler rated speaker. I checked out Joe's suggestion about that really small Radio Shack external communication speaker. My local store had two in stock, and on sale for \$19 or so.

By the way, this is a wonderful time to buy almost any kind of stereo or household speaker or system, as RS is having a big sale on all name brand (RCA) and other speakers in the stores and even in the most recent mailed catalog. You can get anything from small replacement speakers to big 100 Watt speakers in cabinets, and many of them are on sale, even 50% off in many cases. That is pretty good, but you know what they say, 50% off means that you have to spend \$100 to save \$100 !

I don't like to spend a lot of money, but I did buy several kinds of speakers (on sale) and ran some tests on them to see which ones worked the best with this half watt of audio PSK signal. I will be giving out more details in the next message (coming real soon now !).

73 WA3OWT
for njqrp -- Allan Owen

Date: Sat, 24 Mar 2001 13:45:02 -0700
From: Tim and Nancy Logan <cyr999@extremezone.com>
To: qrp-1@Lehigh.EDU
Subject: [94847] Selling Index Labs QRP++ and S&S ARK40
Message-ID: <3ABD074E.E1D29CB@extremezone.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi folks - hope it's OK to post a sale notice. My apologies if not. I recently acquired an Index Labs QRP++ and an extra brand new case. It is in excellent shape and was sent to me from a friend of Bruce Franklin's. Bruce has tweaked this unit himself and it has all the mods for the ++ designation plus a little MFJ mike. It just is not my cup of tea. I would like to sell it for \$290...preferably to someone in Arizona. Also selling a perfect factory built S&S ARK40 with internal keyer for \$200. Prices are firm. Terms would be for buyer to send me a money order for cost plus shipping than I send the unit(s). Days: 480-763-1300 Eves: 480-497-9888 Email is cyr999@extremezone.com. They need good homes. 73/ Tim Logan KB7OEX

Date: Sat, 24 Mar 2001 16:07:45 EST
From: RangerSF5@aol.com
To: cyr999@extremezone.com, qrp-1@lehigh.edu
Subject: [94848] Re: Selling Index Labs QRP++ and S&S ARK40
Message-ID: <a.aa9cc49.27ee66a1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 3/24/01 3:46:59 PM Eastern Standard Time, cyr999@extremezone.com writes:

<< ranklin's. Bruce has tweaked this unit himself and it has all the mods for the ++ designation plus a little MFJ mike. It just is not my cup of tea. I would like to sell it for \$290...preferably to someone in Arizona. Also selling a perfect factory built S&S ARK40 with internal >>
I JUST HAVE TO ASK.
WHY IS THE SALE RESTRICTED TO ONE STATE?
bob WA2HOQrp <tm>

Date: Sat, 24 Mar 2001 16:16:57 -0500
From: Joseph I Pirkle <ad4ih@juno.com>
To: w2agn@pobox.com
Cc: qrp-1@Lehigh.EDU
Subject: [94849] Re: Snap Transmitter?
Message-ID: <20010324.161701.-3618163.0.ad4ih@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John,

Before I approach you. Did I pay for it yet? I forgot....

>

> ----- Original Message -----

> From: "John L. Sielke" <w2agn@pobox.com>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Saturday, March 24, 2001 1:28 PM

> Subject: Snap Transmitter?

>

>

> > I know I am bringing a Snap transmitter kit for someone to

> Atlanticon. I

> just

> > forgot who. Anyway, you can probably find me. 6'2" 210 pounds,

> glasses,

> grey

> > hair and beard. I'll be arriving Friday afternoon. White Ford

> Explorer

> with

> > Texas Bugcatcher antenna and call sign plates.

>

>

Joe Pirkle, AD4IH,

"Everyone seems normal until you get to know them."

ad4ih@att.net / ad4ih@arrl.net

Date: Sat, 24 Mar 2001 14:18:45 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94850] FS: DSW-30
Message-ID: <0E66hYQYx3G5aYY61LE00004ab0@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

\$155 in kit form, or \$180 assembled (by me), shipped CONUS.

73, Rod NØRC
Ft Collins CO

Date: Sat, 24 Mar 2001 16:30:05 -0500 (EST)
From: "John L. Sielke" <w2agn@pobox.com>
To: David Porter <aa3ur@home.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [94851] Re: Snap Transmitter?
Message-ID: <XFMail.010324163005.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

OK, add to that "good-looking."

On 24-Mar-01 David Porter wrote:
> You think you're the only 6'2" 210(+)pound guy wearing glasses with a grey
> hair and beard??????
>
> NOT!!!
>
> David Porter
> aa3ur@home.com
> AA3UR
>

Date: Sat, 24 Mar 2001 16:30:23 -0500
From: Michael Bower <bowerm@ix.netcom.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [94852] Re: Snap Transmitter?
Message-ID: <3ABD11EF.21AC41ED@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Psst. Shhh. Psst. John, tell him the answer is no. See if he'll
buy it again.

Shhh. Don't tell him I said this...

Psst. Shhh

<grin><grin><grin><grin><grin><grin><grin><grin>

Joseph I Pirkle wrote:

> John,
> Before I approach you. Did I pay for it yet? I forgot....
> >
> > ----- Original Message -----
> > From: "John L. Sielke" <w2agn@pobox.com>
> > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > Sent: Saturday, March 24, 2001 1:28 PM
> > Subject: Snap Transmitter?
> >
> >
> > > I know I am bringing a Snap transmitter kit for someone to
> > Atlanticon. I
> > just
> > > forgot who. Anyway, you can probably find me. 6'2" 210 pounds,
> > glasses,
> > grey
> > > hair and beard. I'll be arriving Friday afternoon. White Ford
> > Explorer
> > with
> > > Texas Bugcatcher antenna and call sign plates.
> >
> >
>
> Joe Pirkle, AD4IH,
> "Everyone seems normal until you get to know them."
> ad4ih@att.net / ad4ih@arrl.net

--

73 de N4NMR
Michael Bower
Ashburn, VA (near Washington, D.C.)

Date: Sat, 24 Mar 2001 17:38:09 -0500
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [94853] Century 21 w/low output
Message-ID: <E1F0152638DBD311AEF700D0B74455E21E3575@EXCHANGE_NH>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Well, the PTO rebuild well smoothly, and the aligning, well, it's close enough for now. I then fixed (maybe?) the 12V regulator; this design uses a 2N3055 pass transistor and somebody had the base and emitter wires wired wrong. Radio seemingly receives ok, and am I learning the "fun-ness" of direct conversion.

But, the radio has low output, on the order of 5 or 7W on 20m and less on the other bands. On the front of the radio, there is a dial for input wattage, and that seems to be acting normally--turn up the drive power, the input power level goes up. And power output goes up, but it's off by several dB (I think the radio is good for 25-30W?). So, in the last few minutes that I had to check it out (wanted to go home for supper--I do my radio testing at work), I hooked up a 200MHz DSO and looked at the signal. Looks ok, but maybe has some amplitude modulation going on? I checked the output of the low level driver, and it looked ok also, but with the same amplitude thing going on. Also, the sidetone note changes in pitch as the power is cranked up--I take this to be a sign that the power supply is sagging (or doing other bad things). Any suggestions?

I also noticed, at least on 20m, that the noise floor of the radio changed a lot going from band edge to band edge. It dropped some as I went from, say, 14.1 to 14.0, but dropped a lot from 14.3 to 14.5. Hard to say what this radio went through before me, but is this a sign that more of the radio needs aligning?

Thanks for the help and suggestions.

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

Date: Sat, 24 Mar 2001 17:27:53 -0500
From: "George Heron N2APB" <n2apb@erols.com>

To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [94854] QRP sprint Sunday evening
Message-ID: <00d401c0b4b1\$ae8e5b30\$085daccf@gh1pt4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just a quick reminder about the "Spring QRP Homebrewer Sprint" being held tomorrow evening (Sunday). This is for CW and PSK31 modes, so use your keyers or use your Warbler/PSK-20/PSK-40 ... whatever!

Full details at <http://www.njqrp.org/data/qrphomebrewersprint.html>

Hope to work you in the QHB Sprint tomorrow!

72,
George N2APB n2apb@amsat.org
Ken, N2CQ n2cq@arrl.net

Date: Sat, 24 Mar 2001 15:28:50 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: "Steve Weber" <kd1jv@moose.ncia.net>, <k7qo@earthlink.com>
Subject: [94855] [TMPS] MS-30 LIVES!
Message-ID: <0E31x3AkwtSQtQoPAz00003c19@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well how cool is this?

Today I completed the MS-30 kit that Steve "Melt Solder" Weber offered up a while back. I call CQ looking for my first QSO abt 2100z on 10.124MHz, who answers? Chuck "Mr. TMPS" Adams, 439s/569r! How's that for a little 30m MOJO? ;-) (My Pout was set for ~3W but the rig can easily do 5-7W)

TNX for the QSO Chuck. I think your sig was stronger than what I reported, but the MS-30 does not have RIT (yet), and you were not centered well in the passband. And--a thousand pardons for the CW, I was using a straight key, UGH!

First MS-30 Mod: A keyer, I have a TiCK SM kit that I'm building up for this rig.

Second Mod: RIT per the schematic offered with the MS-30, built Manhattan style.

73, Rod N0RC
Ft Collins CO

Date: Sat, 24 Mar 2001 17:40:32 EST
From: Drbob92031@aol.com
To: qrp-l@lehigh.edu
Subject: [94856] Buried radials?
Message-ID: <90.11ef5bf6.27ee7c60@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all;

Antenna restrictions force me to go to a vertical (multi band). I intend to put the radials in a slit "trench." My question is. Does it matter if the radials for 10;15 and 20M are all placed in the same slit trench (3" to 6" deep) along side each other. I think not. But want assurances.
Tnx for any assistance; de WA2EAW; Bob

Date: Sat, 24 Mar 2001 15:40:05 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94857] Re: DSW-30
Message-ID: <0E53HvoFOAmEaJswFCH00004028@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The kit is spoken for. 2 minutes after the posting hit the list. To all who responded thank you. I keep everybody's name in case something changes.

73, Rod N0RC
Ft Collins CO

----- Original Message -----
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, March 24, 2001 02:18 PM

Subject: FS: DSW-30

> \$155 in kit form, or \$180 assembled (by me), shipped CONUS.

Date: Sat, 24 Mar 2001 16:56:32 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <Drbob92031@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [94858] Re: Buried radials?
Message-ID: <002701c0b4b5\$b193af20\$0300a8c0@bergenbrunswick.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob, If I read your message right, you mean that you are wanting to bury the radials in the ground. Right?

If that is the case, there will not really be any such thing as "10, 15, 20 meter radials". The ground will totally detune anything in the way of radials. I would see no value in putting separate wires supposedly tuned for different bands in the same trench. You would be better off to put as many wires down as you can, but fan them out as much as possible.

If you are limiting the number of wires laid out to the number of available trances, I don't see any gain to putting more than one wire in the trench.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
Web site: <http://www.qsl.net/wb9tka>
SOC #198, FPQRP # -104
May Goddes love blest ye alle
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----
From: <Drbob92031@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, March 24, 2001 4:40 PM
Subject: Buried radials?

> Hi all;
>
> Antenna restrictions force me to go to a vertical (multi band). I intend

to

> put the radials in a slit "trench." My question is. Does it matter if the
> radials for 10;15 and 20M are all placed in the same slit trench (3" to 6"
> deep) along side each other. I think not. But want assurances.
> Tnx for any assistance; de WA2EAW; Bob

Date: Sat, 24 Mar 2001 18:02:29 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <7twh@ttc-cmc.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [94859] Re: K1 as a beginners rig?
Message-ID: <002501c0b4b6\$b84a52a0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Questions:
> 1. Is the K1 too hard for a beginner?

No, it's not hard, but then, neither is the K2. But they ARE
incredibly intimidating to a beginner.

Would I recommend that to someone for a first time kit?

NO WAY!! But that is NOT to say I wouldn't recommend
it to a beginner. 1st timer is the key.

If the 'beginner' has good soldering skills, is organized,
and will FOLLOW DIRECTIONS, then they should have
little problem with the Elecraft. I know people who have
(or claim to have) built a K2 as their first kit. But then,
these people were TECHNICIANS with good mechanical
and soldering/construction skills, even if they have never
built a kit before.

I personally don't know about the K1, but I CAN tell you
the K2 is a 'simple' kit to build, but only in the sense that
there are no complex pieces. Just an incredible number
of simple pieces. Discipline in building is the key, keeping
organized and following directions. READ each step
through first. Then read it again and 'visualize' it. Try to
DO things. Then read it yet again and actually do it.

> 2. Can someone recommend a good small kit project
> (\$30-40) that he could get started with?

LOTS of beginner kits out there. Go to Radio Shack and look for the 'stand' of catalogs they have off to the side. In them you can find Ramsey, Vectronics, and others. You can order simple kits there at Radio Shack or direct from the companies.

What would I recommend? First SIMPLE kits to build soldering skills if needed. Stuff like 'tickle sticks' (shocker toys) audio amps, oscillators. Stuff to have fun with.

One kit to build to get the 'kit building feel' is the Light Beam communicator from Ramsey. It's two pieces. Audio in to IR out, and the other IR in to audio out. Two of them make a 'light beam communicator'. One of them can make a remote control extender. It's a neat kit that's cheap and gives a lot of positive feedback on building it.

Once the 'skills' are up to snuff, THEN risk a K1 (or a K2!)

Mike

Date: Sat, 24 Mar 2001 17:45:45 -0600
From: "George, W5YR" <w5yr@att.net>
To: dandoooley@pipeline.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [94860] Re: Buried radials?
Message-ID: <3ABD31A9.A34E4FBA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

And, to add to Bob's response, there is nothing to be gained electrically by placing the wires under the surface. So, just "bury" them deep enough to get them out of the way. I have 60 radials under my vertical and most are about 1/2" in the ground under the sod.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Dan W. Dooley" wrote:

>

> Bob, If I read your message right, you mean that you are wanting to bury the
> radials in the ground. Right?

>

> If that is the case, there will not really be any such thing as "10, 15, 20
> meter radials". The ground will totally detune anything in the way of
> radials. I would see no value in putting separate wires supposedly tuned
> for different bands in the same trench. You would be better off to put as
> many wires down as you can, but fan them out as much as possible.

>

> If you are limiting the number of wires laid out to the number of available
> trances, I don't see any gain to putting more than one wire in the trench.

Date: Sat, 24 Mar 2001 15:46:14 -0800

From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>

To: "'Drbob92031@aol.com'" <Drbob92031@aol.com>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>

Subject: [94861] RE: Buried radials?

Message-ID: <131CE266CAD0D211B3550008C7C9A2D53217F3@arcadia-pd1.ci.arcadia.ca.us>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

For a ground-mounted vertical, I would forget about cutting the
radials to $1/4WL$ or $1/4WL+5\%$. The literature suggests that
you are "way" better off to use a bunch of radials all of the same
length, and forget the old hat about two or four $1/4WL$ radials per band.
You'd do better with 20 or more radials, all cut to 25 or 30 feet
if possible.

Also, deeper is not better. Bury the radials just an inch or
two below the soil... enough so the radials won't pop up or be disturbed.
Deep radials "may" make a nice static/safety ground but make
a poor HF groundplane.

73

Jay

W6CJ

-----Original Message-----

From: Drbob92031@aol.com [mailto:Drbob92031@aol.com]

Sent: Saturday, March 24, 2001 2:41 PM

To: Low Power Amateur Radio Discussion

Subject: Buried radials?

Hi all;

Antenna restrictions force me to go to a vertical (multi band). I intend to put the radials in a slit "trench." My question is. Does it matter if the radials for 10;15 and 20M are all placed in the same slit trench (3" to 6" deep) along side each other. I think not. But want assurances.
Tnx for any assistance; de WA2EAW; Bob

End of QRP-L Digest 2137
